

Illinois Department of Transportation
Bureau of Materials and Physical Research
**APPROVED LIST OF PACKAGED, DRY, RAPID HARDENING CEMENTITIOUS MATERIALS
FOR CONCRETE REPAIRS**

July 28, 2006

This list supersedes the May 5, 2006 list.

Special Provision for Subsealing of Concrete Pavements (Revised February 1, 1995)

Special Provision for Pavement Thickness Determination for Payment (Revised January 1, 2004)

Standard Specification for Road and Bridge Construction, Section 1020.04 (Adopted January 1, 2002)

RAPID HARDENING CEMENT WHICH MEETS THE FOLLOWING IDOT REQUIREMENTS

- The cement shall have a maximum final set of 25 minutes, according to Illinois Modified ASTM C 191.
- The cement shall have a minimum compressive strength of 13.8 Mpa (2,000 psi) at 3.0 hours, and 27.6 Mpa (4,000 psi) at 24.0 hours, according to Illinois Modified ASTM C 109.
- The cement shall have a maximum drying shrinkage of 0.050% at 7 days, according to Illinois Modified ASTM C 596.
- The cement shall have a maximum expansion of 0.020% at 14 days, according to Illinois Modified ASTM C 1038.
- The cement shall have a minimum 80% relative dynamic modulus of elasticity; and shall not have a mass (weight) gain in excess of 0.15% or a mass (weight) loss in excess of 1.0%, after 100 cycles, according to Illinois Modified AASHTO T 161, Procedure B. At 100 cycles, specimens are measured and weighed at 73° F.

Material Code No. 37901

If fine or coarse aggregate is added, the Material Code No. is 22106, "PATCHING MIXTURE, RAPID HARDENING CEMENT".

US Concrete Products
16 Greenmeadow Drive, Suite 111
Timonium, MD 21093
Phone: 866-827-8727 or 410-561-8770
Attn: Edward Brennan
Producer Supplier No. 5831-01
www.uscproducts.com
"HIGH POWER CEMENT"

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R1 MORTAR WHICH MEETS ASTM C 928

Material Code No. 22100

If coarse aggregate is added, the Material Code No. is 22102, "PATCHING MIXTURE, CONCRETE, R1".

None Available

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R2 MORTAR WHICH MEETS ASTM C 928

Material Code No. 22101

If coarse aggregate is added, the Material Code No. is 22104, "PATCHING MIXTURE, CONCRETE, R2".

Dayton Superior Corporation

4226 Kansas Ave.

Kansas City, KS 66106

Phone: 866-329-8724

Attn: John C. Hukey

Technical Services

Producer/Supplier No. 494-05

www.daytonsuperiorchemical.com

"DAY-CHEM PERMA PATCH"

"HD-50 HEAVY DUTY CONCRETE PATCH"

Specco Industries, Inc.

13087 Main Street

Lemont, IL 60439

Phone: 800-441-6646

Attn: Jeffrey C. Bencsik

Producer/Supplier No. 3936-01

www.specco.com

"SPECCOPATCH RS"

BASF Building Systems

16317 South Chester Street

Olathe, KS 66062

Phone: 913-254-1223

Fax: 913-254-1828

Attn: Darin Cielocha – Southern IL

1574 Fairway Court NE

Solon, IA 52333

Phone: 952-250-1210

Fax: 319-624-5094

Attn: Tom Karlson – Central IL

8131 Highland Avenue

Downers Grove, IL 60516

Phone: 630-910-9803

Fax: 630-910-9803

Attn: Mike McCluskey – Northern IL

Producer/Supplier No. 4179-05

www.basf.com

"10-60 RAPID MORTAR"

Symons Corporation

4226 Kansas Ave.

Kansas City, KS 66106

Phone: 866-329-8724

Attn: John C. Hukey

Technical Services

Producer/Supplier No. 4622-01

www.symons.com

"SYMONS DOT PATCH"

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R3 MORTAR WHICH MEETS ASTM C 928

Material Code No. 22103

If coarse aggregate is added, the Material Code No. is 22105, "PATCHING MIXTURE, CONCRETE, R3".

BASF Building Systems
16317 South Chester Street
Olathe, KS 66062
Phone: 913-254-1223
Fax: 913-254-1828
Attn: Darin Cielocha – Southern IL

1574 Fairway Court NE
Solon, IA 52333
Phone: 952-250-1210
Fax: 319-624-5094
Attn: Tom Karlson – Central IL

8131 Highland Avenue
Downers Grove, IL 60516
Phone: 630-910-9803
Fax: 630-910-9803
Attn: Mike McCluskey – Northern IL
Producer/Supplier No. 4179-05

www.basf.com

"SET 45"

Specco Industries, Inc.
13087 Main Street
Lemont, IL 60439
Phone: 630-257-5060
Attn: Jeffrey C. Bencsik
Producer/Supplier No. 3936-01
www.specco.com
"SPECRETE HIGHWAY REPAIR 928"

W. R. Meadows
P.O. Box 338
Hampshire, IL 60140
Phone: 800-342-5976
Attn: Steve Geiger
Producer/Supplier No. 1266-02
www.wrmeadows.com
"SEALTIGHT FUTURA-15"

The Quikrete Companies
500 Marathon Parkway
Lawrenceville, GA 30045
Phone: 770-216-9580
Attn: Richard Nicholson
Producer/Supplier No. 5719-01
**"QUIKRETE COMMERCIAL GRADE
FASTSET NONSHRINK GROUT"**

Sika Corporation
201 Polito Ave.
Lyndhurst, NJ 07071
Phone: 800-933-7452
Attn: Tom Buchmiller
Producer/Supplier No. 2231-01
www.sikausa.com
"SIKASET ROADWAY PATCH 2000"

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R1 AND R2 CONCRETE WHICH MEETS ASTM C 928

Material Code No. 22102 "PATCHING MIXTURE, CONCRETE, R1"
22104 "PATCHING MIXTURE, CONCRETE, R2"

None available

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R3 CONCRETE WHICH MEETS ASTM C 928

Material Code No. 22105 "PATCHING MIXTURE, CONCRETE, R3"

The Quikrete Companies
500 Marathon Parkway
Lawrenceville, GA 30045
Phone: 770-216-9580
Attn: Richard Nicholson
Producer/Supplier No. 5719-01
**"QUIKRETE COMMERCIAL GRADE FASTSET
CONCRETE MIX "**